

ABSTRACT

A monotonic digital-to-analog converter (DAC) for converting a digital input
5 signal into an analog output signal comprises:
an input node for receiving the digital input signal having at least M+L bits,
an output node for delivering the analog output signal corresponding to the
received digital input signal,
a coarse conversion block comprising current sources and first switching means
10 for converting M more significant bits of the digital input signal into a coarse block
output current,
a fine conversion block comprising a current divider and second switching means
for converting L less significant bits of the digital input signal into a corresponding
current value, the fine conversion block having means for receiving current from a
15 first unselected current source of the coarse conversion block, and
a first cascode means for active cascoding the coarse block output current,
a second cascode means, for active cascoding the current from the first
unselected current source.

A method for converting a digital input signal into an analog output signal
20 is also provided.